

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :
Morio GAKU et al. :
Serial No. NEW : **Attn: APPLICATION BRANCH**
Filed March 31, 2004 : Attorney Docket No. 2004_0517

METHOD OF MAKING THROUGH HOLE
WITH LASER, COPPER-CLAD LAMINATE
SUITABLE FOR MAKING HOLE, AND
AUXILIARY MATERIAL FOR MAKING
HOLE

**(Rule 1.53(b) Divisional
of Serial No. 10/028,734,
Filed December 28, 2001)**

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449.

A legible copy of each reference listed on the form PTO-1449 and each U.S. patent application listed below is enclosed, except a copy is not provided for each reference previously cited by or submitted to the Patent Office in prior parent application Serial No. 10/028,734.

1a. ☒ This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, **or**

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

- 1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, **or**

(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

- 1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

2. It is hereby certified

a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or


b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.

4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
- a. ☐ a full or partial English language translation submitted herewith,
 - b. ☐ a foreign patent office search report (in the English language) submitted herewith,
 - c. ☐ the concise explanation contained in the specification of the present application at page ,
 - d. ☐ the concise explanation set forth in the attached English language abstract,
 - e. ☐ the concise explanation set forth below or on a separate sheet attached to the reference:
5. ☐ A foreign patent office search report citing one or more of the references is enclosed.

Respectfully submitted,

Morio GAKU et al.

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March 31, 2004

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: March 31, 2004

ATTY DOCKET NO.
2004_0517SERIAL NO.
NEWAPPLICANT
Morio GAKU et al.FILING DATE
March 31, 2004GROUP
1725

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,965,043	10/1999	Noddin et al.			
	AB	4,751,146	6/1988	Maeda et al.			
	AC	5,863,446	1/1999	Hanson			
	AD	5,916,401	6/1999	Gannon			
	AE	5,925,500	7/1999	Yang et al.			
	AF	5,847,327	12/1998	Fischer et al.			
	AG	5,470,644	11/1995	Durant			
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ	98/20533	5/1998	PCT			X
	AK	48,914	2/1999	JAPAN			Abstract
	AL						
	AM						
	AN						

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	Kestenbaum et al., IEEE Transactions on Components, Hybrids, and Manufacturing Technology, Vol. 13, No. 4, pp. 1055-1062 (1990)
	AP	
	AQ	

EXAMINER

DATE CONSIDERED